Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

l ID	:	**CP-RW-2019-10-12-21** **Date: 24/09/2019**
ject Name	:	Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.
ncy	:	Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.
tomer's Reference	:	BBMP/EE/BTP/WO/103/2018-19
te of Receipt	:	18-09-19
tomer ID	:	Drain Bottom Slab Concrete
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 7 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
te of test	:	24/09/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	17/09/2019	24/09/2019	151.69 X 151.57 X 150.65	22992	**8.286**	429.5	18.7	18.4
2	Drain Bottom Slab Concrete	M20	17/09/2019	24/09/2019	151.85 X 151.28 X 151.21	22972	**8.897**	415.4	18.1	
3	Drain Bottom Slab Concrete	M20	17/09/2019	24/09/2019	152.00 X 149.81 X 150.36	22771	**8.077**	418.0	18.4	

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

M: 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-RW-2019-10-12-21** **Date: 01/10/2019**
ect Name	:	Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.
ncy	:	Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.
omer's Reference	:	BBMP/EE/BTP/WO/103/2018-19
e of Receipt	:	19-09-19
omer ID	:	Drain Bottom Slab Concrete
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 14 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	01/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	17/09/2019	01/10/2019	149.96 X 151.80 X 151.37	22763	**8.286**	429.7	18.9	20.3
2	Drain Bottom Slab Concrete	M20	17/09/2019	01/10/2019	149.38 X 151.74 X 151.13	22667	**8.897**	411.0	18.1	
3	Drain Bottom Slab Concrete	M20	17/09/2019	01/10/2019	150.36 X 150.45 X 151.06	22621	**8.077**	420.5	18.6	

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka, B.B.M.P.,
Bangalore.

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-RW-2019-10-12-21** **Date: 15/10/2019**

Project Name : Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.

Agency : Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/WO/103/2018-19

Date of Receipt : 19-09-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/10/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	17/09/2019	15/10/2019	149.43 X 151.75 X 149.20	22676	**8.603**	523.1	23.1	22.9
2	Drain Bottom Slab Concrete	M20	17/09/2019	15/10/2019	150.73 X 151.08 X 149.01	22772	**8.195**	506.9	22.3	
3	Drain Bottom Slab Concrete	M20	17/09/2019	15/10/2019	150.72 X 150.50 X 149.84	22684	**8.849**	529.3	23.3	

AE(W-2)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

FOR CIVIL Pro.

CIVIL Pro BANGALORE Sig..... Date.....

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
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TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-RW-2019-10-12-21** **Date: 24/09/2019**

: Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.

: Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.

: BBMP/EE/BTP/WO/103/2018-19

: 19-10-19

: Drain Bottom Slab Concrete

: 150X150X150 mm

: M20 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 24/09/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Slab Concrete	M20	17/09/2019	24/09/2019	149.26 X 149.39 X 149.17	22298	**8.286**	411.5	18.5	18.5
Drain Bottom Slab Concrete	M20	17/09/2019	24/09/2019	149.78 X 151.39 X 151.29	22676	**8.897**	414.9	18.3	
Drain Bottom Slab Concrete	M20	17/09/2019	24/09/2019	150.42 X 151.98 X 150.03	22861	**8.077**	430.1	18.8	

AE(W)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-RW-2019-10-12-21** **Date: 01/10/2019**
ct Name	:	Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.
ncy	:	Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.
mer's Reference	:	BBMP/EE/BTP/WO/103/2018-19
of Receipt	:	19-09-19
mer ID	:	Drain Bottom Slab Concrete
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 14 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	01/10/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Slab Concrete	M20	17/09/2019	01/10/2019	149.50 X 149.67 X 151.73	22376	**8.286**	424.0	18.9	20.3
Drain Bottom Slab Concrete	M20	17/09/2019	01/10/2019	149.39 X 151.19 X 150.94	22586	**8.897**	412.2	18.2	
Drain Bottom Slab Concrete	M20	17/09/2019	01/10/2019	151.26 X 151.41 X 151.13	22902	**8.077**	412.3	18.0	

AE(HQ) Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P. Bangalore.

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-RW-2019-10-12-21** **Date: 15/10/2019**
ct Name	:	Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.
ncy	:	Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.
nner's Reference	:	BBMP/EE/BTP/WO/103/2018-19
e of Receipt	:	19-09-19
mmer ID	:	Drain Bottom Slab Concrete
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 28 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	15/10/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Slab Concrete	M20	17/09/2019	15/10/2019	151.40 X 150.69 X 149.72	22814	**8.603**	532.7	23.3	23.3
Drain Bottom Slab Concrete	M20	17/09/2019	15/10/2019	151.28 X 149.64 X 150.91	22638	**8.195**	514.7	22.7	
Drain Bottom Slab Concrete	M20	17/09/2019	15/10/2019	149.41 X 150.35 X 151.43	22464	**8.849**	535.5	23.8	

AE(WZ)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-RW-2019-10-12-21** **Date: 28/09/2019**
est Name	:	Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.
ncy	:	Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.
mer's Reference	:	BBMP/EE/BTP/WO/103/2018-19
of Receipt	:	23-09-19
mer ID	:	Drain Side Wall Concrete
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 7 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	28/09/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall Concrete	M20	21/09/2019	28/09/2019	151.46 X 149.83 X 149.83	22693	**8.286**	414.7	18.3	18.7
Drain Side Wall Concrete	M20	21/09/2019	28/09/2019	151.12 X 151.67 X 150.29	22920	**8.897**	434.5	19.0	
Drain Side Wall Concrete	M20	21/09/2019	28/09/2019	150.07 X 150.34 X 150.90	22562	**8.077**	428.1	19.0	

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE(HQ)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-RW-2019-10-12-21** **Date: 28/09/2019**
ject Name	:	Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.
ncy	:	Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.
tomer's Reference	:	BBMP/EE/BTP/WO/103/2018-19
e of Receipt	:	23-09-19
tomer ID	:	Drain Side Wall Concrete
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 7 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	28/09/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall Concrete	M20	21/09/2019	28/09/2019	151.46 X 149.83 X 149.83	22693	**8.286**	414.7	18.3	18.7
Drain Side Wall Concrete	M20	21/09/2019	28/09/2019	151.12 X 151.67 X 150.29	22920	**8.897**	434.5	19.0	
Drain Side Wall Concrete	M20	21/09/2019	28/09/2019	150.07 X 150.34 X 150.90	22562	**8.077**	428.1	19.0	

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL Pro Sig..... Date..... BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID : **CP-RW-2019-10-12-21** **Date: 05/10/2019**

ct Name : Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.

ncy : Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.

omer's Reference : BBMP/EE/BTP/WO/103/2018-19

e of Receipt : 23-09-19

omer ID : Drain Side Wall Concrete

ple Type /Size : 150X150X150 mm

ple grade/Age : M20 / 14 Days Compressive Strength

erence to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

e of test : 05/10/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall Concrete	M20	21/09/2019	05/10/2019	150.61 X 150.43 X 151.82	22657	**8.286**	421.4	18.6	20.1
Drain Side Wall Concrete	M20	21/09/2019	05/10/2019	151.74 X 149.63 X 149.11	22705	**8.897**	411.9	18.1	
Drain Side Wall Concrete	M20	21/09/2019	05/10/2019	150.70 X 151.80 X 149.11	22877	**8.077**	434.0	19.0	

AE(Rly)

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-RW-2019-10-12-21** **Date: 19/10/2019**
ect Name	:	Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.
ncy	:	Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.
omer's Reference	:	BBMP/EE/BTP/WO/103/2018-19
of Receipt	:	23-09-19
omer ID	:	Drain Side Wall Concrete
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 28 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	19/10/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall Concrete	M20	21/09/2019	19/10/2019	150.16 X 149.50 X 151.04	22450	**8.603**	533.8	23.8	23.5
Drain Side Wall Concrete	M20	21/09/2019	19/10/2019	149.46 X 151.17 X 151.82	22594	**8.195**	519.1	23.0	
Drain Side Wall Concrete	M20	21/09/2019	19/10/2019	149.15 X 151.62 X 150.94	22613	**8.849**	537.7	23.8	

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE(L2) Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-RW-2019-10-12-21** **Date: 28/09/2019**
ject Name	:	Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.
ncy	:	Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.
tomer's Reference	:	BBMP/EE/BTP/WO/103/2018-19
e of Receipt	:	23-09-19
tomer ID	:	Drain Side Wall Concrete
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 7 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	28/09/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall Concrete	M20	21/09/2019	28/09/2019	151.80 X 149.79 X 149.31	22739	**8.286**	413.6	18.2	18.3
Drain Side Wall Concrete	M20	21/09/2019	28/09/2019	150.90 X 149.47 X 151.46	22555	**8.897**	411.6	18.2	
Drain Side Wall Concrete	M20	21/09/2019	28/09/2019	151.30 X 150.28 X 150.82	22738	**8.077**	422.9	18.6	

AE(W-1)

Assistant Executive Engineer,
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FOR CIVIL Pro.

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-RW-2019-10-12-21 **Date: 05/10/2019**

: Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.

: Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.

: BBMP/EE/BTP/WO/103/2018-19

: 23-09-19

: Drain Side Wall Concrete

: 150X150X150 mm

: M20 / 14 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 05/10/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall Concrete	M20	21/09/2019	05/10/2019	151.20 X 150.85 X 150.97	22809	**8.286**	420.1	18.4	20.2
Drain Side Wall Concrete	M20	21/09/2019	05/10/2019	150.02 X 150.42 X 149.91	22566	**8.897**	406.6	18.0	
Drain Side Wall Concrete	M20	21/09/2019	05/10/2019	150.60 X 150.19 X 151.46	22619	**8.077**	415.1	18.3	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-RW-2019-10-12-21** **Date: 19/10/2019**
ect Name	:	Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.
ncy	:	Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.
omer's Reference	:	BBMP/EE/BTP/WO/103/2018-19
e of Receipt	:	23-09-19
omer ID	:	Drain Side Wall Concrete
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 28 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	19/10/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall Concrete	M20	21/09/2019	19/10/2019	151.49 X 149.89 X 150.83	22707	**8.603**	528.9	23.3	23.0
Drain Side Wall Concrete	M20	21/09/2019	19/10/2019	151.32 X 150.66 X 151.93	22798	**8.195**	514.0	22.5	
Drain Side Wall Concrete	M20	21/09/2019	19/10/2019	150.61 X 150.73 X 151.29	22701	**8.849**	526.9	23.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-RW-2019-10-12-21** **Date: 28/09/2019**
ect Name	:	Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.
ncy	:	Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.
tomer's Reference	:	BBMP/EE/BTP/WO/103/2018-19
e of Receipt	:	23-09-19
stomer ID	:	Drain Side Wall Concrete
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 7 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	28/09/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall Concrete	M20	21/09/2019	28/09/2019	149.14 X 151.88 X 150.11	22652	**8.286**	430.2	19.0	18.6
Drain Side Wall Concrete	M20	21/09/2019	28/09/2019	149.11 X 149.99 X 149.01	22366	**8.897**	422.4	18.9	
Drain Side Wall Concrete	M20	21/09/2019	28/09/2019	149.49 X 151.78 X 149.36	22690	**8.077**	409.1	18.0	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

D	:	**CP-RW-2019-10-12-21** **Date: 05/10/2019**
rt Name	:	Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.
ıcy	:	Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.
mer's Reference	:	BBMP/EE/BTP/WO/103/2018-19
f Receipt	:	23-09-19
mer ID	:	Drain Side Wall Concrete
le Type /Size	:	150X150X150 mm
le grade/Age	:	M20 / 14 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test	:	05/10/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall Concrete	M20	21/09/2019	05/10/2019	149.96 X 149.54 X 149.15	22425	**8.286**	408.6	18.2	20.1
Drain Side Wall Concrete	M20	21/09/2019	05/10/2019	151.78 X 149.11 X 150.12	22632	**8.897**	418.7	18.5	
Drain Side Wall Concrete	M20	21/09/2019	05/10/2019	151.53 X 149.12 X 151.10	22596	**8.077**	421.5	18.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-RW-2019-10-12-21** **Date: 19/10/2019**
ect Name	:	Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.
ncy	:	Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.
tomer's Reference	:	BBMP/EE/BTP/WO/103/2018-19
e of Receipt	:	23-09-19
tomer ID	:	Drain Side Wall Concrete
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 28 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	19/10/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall Concrete	M20	21/09/2019	19/10/2019	151.20 X 150.48 X 150.74	22753	**8.603**	524.1	23.0	23.2
Drain Side Wall Concrete	M20	21/09/2019	19/10/2019	151.83 X 151.36 X 151.30	22982	**8.195**	525.0	22.8	
Drain Side Wall Concrete	M20	21/09/2019	19/10/2019	151.22 X 151.82 X 149.48	22957	**8.849**	542.5	23.6	

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-RW-2019-10-12-21** **Date: 15-11-19**

Project Name : Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.

Agency : Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.

Customer Reference : BBMP/EE/BTP/WO/103/2018-19

Date of Receipt : 13-11-19

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 13-11-19

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

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CIVIL Pro BANGALORE Sig..... Date.....

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID : **CP-RW-2019-10-12-21** **Date: 15-11-19**

Project Name : Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.

Agency : Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.

Customer Reference : BBMP/EE/BTP/WO/103/2018-19

Date of Receipt : 13-11-19

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of test : 13-11-19

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : **CP-RW-2019-10-12-21** **Date: 15-11-19**

Project Name : Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.

Agency : Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.

Customer Reference : BBMP/EE/BTP/WO/103/2018-19

Date of Receipt : 13-11-19

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of test : 13-11-19

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : **CP-RW-2019-10-12-21** **Date: 25-11-19**

Project Name : Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.

Agency : Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.

Customer Reference : BBMP/EE/BTP/WO/103/2018-19

Date of Receipt : 23-11-19

Type of Mix : BC-Plant (Bituminous Concrete)

Date of test : 23-11-19

Oven Dry Weight : 5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

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Page 1/1
End of Report

TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID : **CP-RW-2019-10-12-21** **Date: 26-11-19**

Project Name : Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.

Agency : Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.

Customer Reference : BBMP/EE/BTP/WO/103/2018-19

Date of Receipt : 23-11-19

Type of Mix : BC(Bitumenous Concrete)

Date of test : 23-11-19

Type of Binder : 60/70

% of Binder Used : 5.0%

Weight of Aggregate : 200.0 gm

Weight of Binder : 10.0 gm

Temperature of water bath : 40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

ID : **CP-RW-2019-10-12-21** **Date: 26-11-19**

ject Name : Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.

ncy : Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.

tomer Reference : BBMP/EE/BTP/WO/103/2018-19

e of Receipt : 23-11-19

e of Mix : BC (Bituminous Concrete)

e of test : 23-11-19

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

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TESTS RESULTS ON STABILITY OF MIX

Lab ID : **CP-RW-2019-10-12-21** **Date: 26-11-19**

Project Name : Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.

Agency : Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.

Customer Reference : BBMP/EE/BTP/WO/103/2018-19

Date of Receipt : 23-11-19

Type of Mix : BC (Bituminous Concrete)

Date of test : 23-11-19

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	–

Assistant Executive Engineer,
Kodigehalli Sub Division,
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig. Date

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End of Report

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : **CP-RW-2019-10-12-21** **Date: 03-12-19**

Project Name : Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.

Agency : Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.

Customer Reference : BBMP/EE/BTP/WO/103/2018-19

Source of Sample : Sample supplied by Agency

Date of Receipt : 30-11-19

Type of Mix : BC (Bituminous Concrete)

Date of test : 30-11-19

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	472	471
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.6	5.8
4	Average percentage	%	5.7	

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Lab ID : **CP-RW-2019-10-12-21** **Date: 03-12-19**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.7	62.3	53-71
2.36	88	266	56.4	43.6	42-58
1.18	29	295	62.5	37.5	34-48
0.6	11	306	64.8	35.2	26-38
0.3	46	352	74.6	25.4	18-28
0.15	45	397	84.1	15.9	12-20
0.075	45	442	93.6	6.4	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 471

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.8	62.2	53-71
2.36	88	266	56.5	43.5	42-58
1.18	29	295	62.6	37.4	34-48
0.6	11	306	65.0	35.0	26-38
0.3	46	352	74.7	25.3	18-28
0.15	45	397	84.3	15.7	12-20
0.075	45	442	93.8	6.2	4-10

Assistant Executive Engineer,
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TEST REPORT ON BITUMEN

Lab ID : **CP-RW-2019-10-12-21** **Date: 22-11-19**

Project Name : Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.

Agency : Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.

Customer's Reference : BBMP/EE/BTP/WO/103/2018-19

Date of Receipt : 21-11-19

Sample Type : Bitumen

Reference to BIS codes : IS: 1201-1220(1978) (Reaffirmed-2004)

Date of test : 21-11-19

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	**64**	60 to 70
2	Softening Point, °C	**51.2**	Min. 40°C
3	Ductility, cm	**98**	Min. 75cm
4	Flash point, °C	**244**	Min. 220°C
	Fire point, °C	**272**	

AE (Wg)

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.
Bangalore.

FOR CIVIL Pro.

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Quality Manager

****End of Report****

DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	**CP-RW-2019-10-12-21** **Date: 02-12-19**
Project Name	:	Package-3, Includes 4 Works of Rs.200.0 Lakhs 1)Improvements to Roads and Drains of Chiranjeevi Layout Extension and Surrounding Areas in Ward No.07, Byatarayanapura 2)Improvements to Roads and Drains of Mariyannapalya and Surrounding Areas in Ward No.07, Byatarayanapura 3)Improvements to Roads and Drains of Gopalappa Layout and Chinnappa Layout in Ward No.07, Byatarayanapura 4)Improvements to Roads and Drains of Hotteppa Layout, Khasinagara and Surrounding Areas in Ward No.07, Byatarayanapura.
Agency	:	Sri D Narahari Beneka Developers & Project Pvt.Ltd,#34, 2nd Floor 2nd Cross, Sampige Road, Malleswaram Bangalore-560003.
Customer Reference	:	BBMP/EE/BTP/WO/103/2018-19
Sample Condition	:	Satisfactory
Date of Receipt	:	30-11-19
Type of Mix	:	Tack coat
Date of test	:	30-11-19

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.803	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

AE(NZ)

Assistant Executive Engineer
Kodigehalli Sub Division,
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